

1377
KOSTERIN, S. I.*; MAREMOV, A. G.; MOTULEVICH, V. P.; SERGEYEV, A. B.; YAKUSHIN, M. I.

"Wind tunnel with a gas heated by a high-frequency discharge."

report submitted for 2nd All-Union Conf on Heat & Transfer, Minsk, 4-12 May
1964.

Mechanics Inst, AS USSR.

S/199/61/002/002/004/004
B112/B229

AUTHOR: Sergeyev, A. S.

TITLE: The chord method

PERIODICAL: Sibirskiy matematicheskiy zhurnal, v. 2, no. 2, 1961, 282-289

TEXT: The author considers a nonlinear functional equation: $P(x) = 0$. $P(x)$ is supposed to be an abstract continuous function which effects a linear map of the Banach space X on the Banach space Y . Besides, the existence of abstract functions $P(x_1, x_0)$, $P(x_2, x_1, x_0)$ is assumed which map the spaces $X \times X$ and $X \times X \times X$ on the subspaces $(X \rightarrow Y)$ and $[X \rightarrow (X \rightarrow Y)]$ of Y , respectively, and satisfy the conditions: $P(x_1, x_0)(x_1 - x_0) = P(x_1) - P(x_0)$ and $P(x_2, x_1, x_0)(x_2 - x_1) = P(x_2, x_0) - P(x_1, x_0)$, respectively. For the solution of the equation $P(x) = 0$ the author uses the iterative method (chord method), starting from two approximation solutions x_0 and x'_0 : $x_{n+1} = x_n - [P(x_n, x_{n-1})]^{-1}P(x_n)$. He proves the following

Card 1/2

The chord method

S/199/61/002/002/004/004
B112/B229

theorem 1: If $T_0 = [P(x'_0, x_0)]^{-1}$ exists and satisfies the conditions:
 $\|T_0\| \leq B_0$, $\|P(x_0)\| \leq \eta_0$, $\|T_0 P(x'_0)\| \leq \eta'_0$ ($\eta_0 \leq \eta'_0$); if furthermore
 $\|P(u, v, z)\| < K$ is valid on the sphere $\|x - x_0\| \leq 2\eta'_0$, and the constants
 B_0 , η_0 , η'_0 , K satisfy the inequality: $h_0 = B_0(\eta_0 + \eta'_0)K < 1/4$, the
 equation $P(x) = 0$ has one solution x^* toward which the approximations x_n

converge with the accuracy: $\|x_n - x^*\| \leq \frac{1}{2^{s_n-1}} \cdot q^{s_n-1} (4h_0)^{s_n} \eta_0$.

In pursuance of this the author proves the uniqueness of the solution x^* :
 Theorem 2: On the assumptions of theorem 1 the equation: $P(x) = 0$
 has exactly one solution. L. V. Kantorovich is mentioned. There are
 3 Soviet-bloc references.

SUBMITTED: March 21, 1960

Card 2/2

SERGEYEV, A.S.

Fenites and processes of their formation in the contact aureole of alkali and ultrabasic intrusions of the Khibozero group (Kola Peninsula). Zap.Vses.min.ob-va 88 no.4:430-443 '59. (MIRA 12:11)

L. Leningradskiy gosudarstvennyy universitet.
(Kola Peninsula—Fenites)

SERGEYEV, A.S.

Oxonic pyrochlore from fenites of the Kola Peninsula. Zap.Vses.
min.ob-va 90 no.4:400-407 '61. (MIRA 14:9)

1. Leningradskiy gosudarstvennyy universitet.
(Kola Peninsula--Pyrochlore) (Kola Peninsula--Fenite)

SECRET V. P. S.

PHASE I BOOK EXPLOITATION

SOV/4725

Krisyuk, Eduard Mechislavovich, Aleksandr Sergeyevich Sergeyev*, and Georgiy Dmitriyevich Latyshev

Aktivnyy osadok radiotoriya (Thorium Active Deposit) Alma-Ata, Izd-vo AN Kazakhskoy SSR, 1960. 2,450 copies printed.

Sponsoring Agency: Akademiya nauk Kazakhskoy SSR. Institut yadernoy fiziki.

Ed.: D. M. Glazyrina; Tech. Ed.: V. P. Prokhorov.

PURPOSE: This booklet is intended for nuclear physicists.

COVERAGE: The authors review the literature on radioactive radiations and decay for transition schemes of ^{212}Pb , ^{212}Bi , ^{212}Tl , ^{208}Tl , and ^{212}Po isotopes in the "thorium active deposit" and present quantum characteristics and conclusions on the nature of levels. They recommend the use of alpha and conversion spectra for calibration and verification of the operation of spectroscopic equipment. Data on the half-lives of the isotopes, the conversion

Card 17

See also SERGEYEV, A G.

Thorium Active Deposit

SOV/4725

spectrum of the thorium active deposit, etc., are presented in tabular form. No personalities are mentioned. There are 191 references: 111 English, 28 Soviet, 18 German, 8 Swedish, 13 French, 10 Italian, and 3 Polish.

TABLE OF CONTENTS:

Introduction	3
Ch. I. Study of the Thorium Active Deposit	
1. Half-lives and the coefficient of branching of Bi ²¹² decay	5
2. Alpha-spectrum	8
3. Beta-spectrum	12
4. Conversion spectrum	16
5. Gamma radiation	27
Ch. II. Decay Scheme of the Thorium Active Deposit	
1. Decay scheme of Pb ²¹²	33
2. Decay scheme of Bi ²¹² $\xrightarrow{\alpha}$ Tl ²⁰⁸	42
3. Decay scheme of Tl ²⁰⁸	49

Card ~~2~~/3

SERGIYEV, A.S.

Fenitized rocks of the Kovdor massif. Uch.zap. LGU no. 312:94~114
'62. (MIRA 15:6)
(Kola Peninsula—Fenites)

MAMONTOV, I.M.; KONDAKOV, N.I.; ARKHIPOV, G.Ye.; SERGEYEV, A.S.,
kand. sel'khoz. nauk; PETROV, Ya.P.; GUR'YEV, D.G.;
STUPALOV, Yu.G.; FIL'CHENKO, R.D., red.; PETROV, G.P.,
tekhn. red.

[Measures for protecting farm plants, fruit and berry
plantations, and forests against pests and diseases in the
Chuvash A.S.S.R. in 1962] Meropriiatiia po zashchite sel'skq-
khoziaistvennykh rastenii, plodovo-iagodnykh nasazhdenii i
lesov ot vreditelei i boleznei po Chuvashskoi ASSR za 1962.
74 p. (MIRA 16:4)

1. Chuvash A.S.S.R. Ministerstvo proizvodstva i zagotovok
sel'skokhozyaystvennykh produktov. Respublikanskaya stantsiya
po zashchite rasteniy

(Chuvashia--Plants, Protection of)

SERGEYEV, A.S.; FEDOROVA, L.G.

Infrared absorption spectra of pyrochlores and some characteristics of the composition of these minerals. Trudy Min.muz.
no.13:102-107 '62. (MIRA 16:2)
(Pyrochlore) (Spectrum, Infrared)

SERGEYEV, A.S., kand.sel'skokhozyaystvennykh nauk; MATVEYEV, N.M.

Heterogeneity of tissues in the main rhizome of the hop plant.
Agrobiologiya no.3:452-453 My-Je '62. (MIRA 15:10)

1. Chuvashskiy sel'skokhozyaystvennyy institut, g. Cheboksary.
(CHUVASHIA--HOPS) (ROOTS (BOTANY))

L 23854-65 EWT(d)/T/EWP(1) IJP(c)
ACCESSION NR: AR4046314

S/0044/64/000/008/B106/B106

SOURCE: Ref. zh. Matematika, Abs. 8B533

AUTHOR: Sergeyev, A. S.

TITLE: On the convergence of some variants of the chord method in normed spaces

CITED SOURCE: Sb. nauchn. tr. Permsk. politekhn. in-t, no. 13, 1963, 43-54

TOPIC TAGS: convergence, chord method, normed space, chord method variant, Cauchy equation, functional equation, nonlinear algebraic equation

TRANSLATION: This is a continuation of earlier studies by the author (RZHMat., 1961, 12V289) on application of the chord method for the approximation of the solution of nonlinear functional equations. The theorem presented earlier by the author on the convergence of the method is proved for some less rigid conditions. A new theorem on convergence is obtained for conditions of the Cauchy type. One variant of the chord method proposed by I. M. Derendyaev (RZHMat., 1959,

Card 1/2

L 23854-65

ACCESSION NR: AR4046314

2022) is generalized for the case of functional equations and examined for convergence. Special attention is given to the case of systems of non-linear algebraic equations. I. Daugavet

SUB CODE: MA

ENCL: 00

Card 2/2

БАБИКОВ, М.А., профессор; КОМАРОВ, Н.С.; СЕРГЕЕВ, А.С.; АКОПЯН, А.А.,
рецензент; ДОЛГИНОВ, А.И., рецензент; БАПТИДАНОВ, Л.Н., редактор.

[Textbook on high voltage technology] Tekhnika vysokikh napria-
zhenii. Pod. red. M.A.Babikova. Moskva, Gos. energ. izd-vo, 1947.
312 p.

(Electric engineering)

(MLRA 7:4)

SERGEYEV, A. S., DOCENT

USSR/Electricity Electric Power Scientists

May 49

"Professor L. I. Sirotinskiy (Seventieth Birthday Anniversary)," Prof P. C. Zhlanov, Dr Tech Sci, Prof V. V. Meshkov, Dr Tech Sci, Prof G. N. Petrov, Dr Tech Sci, Docent, A. S. Sergeyev, 1 p

"Elektrichestvo" No 5

Gives details, in brief, of Prof Sirotinskiy's early education and his part in setting up various electrical engineering laboratories. Most of his activities, in high-voltage techniques, took place at Moscow Power Inst imeni Molotov. Lists most important projects (Dneprostroy, etc.) in which he participated.

PA 55/49T29

BABIKOV, Maksim Aleseyevich, professor, redaktor; KOMAROV, Nikita
Semenovich; SERGEYEV, Aleksandr Sergeyevich; DOLGINOV, A.I.,
redaktor; VORONIN, K.P., ~~tekhnicheskii~~ redaktor.

[High tension engineering] Tekhnika vysokikh napriazhenii
Pod red. M.A.Batikova, Izd. 2-e, perer. Moskva, Gos. energet.
izd-vo 1955. 287 p. (MLRA 8:12)
(Electric power distribution--High tension)

DURNEV, M.Ya., kandidat tekhnicheskikh nauk; KALINICHENKO, V.F., inzhener;
PETROV, Yu.S., kandidat tekhnicheskikh nauk; ~~SERGEYEV, A.S.,~~
kandidat tekhnicheskikh nauk; TONKOSHKUE, L.S., inzhener.

Estimating expected electric loads for surfaces of iron ore mines.
Gor. zhur. no.7:59-60 J1 '57. (MLRA 10:8)
(Electricity in mining)

SEKEY, G.I., inzhener; BERDICHEVSKIY, G.M., inzhener; ~~SERGEYEV, A.S.,~~
kandidat tekhnicheskikh nauk; POLYAKOV, V.A., inzhener; ~~MOROZOV,~~
M.M.

Concerning L.V.Litvak's article "Low-voltage capacitors for power
factor improvement." Prom.energ.12 no.2:13-16 F '57.

(MIRA 10:3)

1. Giprolesprom (for Sekey). 2. Energosbyt Latvenergo (for Sergeyev)
3. Krivorozhskiy gornorudnyy institut (for Sergeyev). 4. Trest "Kavel-
elektromontazh" (for Polyakov) 5. Direktor zavoda "Kondensator" (for
Morozov).

(Condenseres (Electricity))

SERGEYEV, A.S., kandidat tekhnicheskikh nauk; KIRPICHNIKOV, L.A., inzhener;
LITVAK, L.V., kandidat tekhnicheskikh nauk.

Placement of condensers in industrial plant circuits to increase
the power factor. Prom.energ. 12 no.6:21-24 Je '57. (MIRA 10:7)
(Electric circuits)

SERGEYEV, A.S.,

Distribution of condensers connected to electric circuits in coal
mines. Zap.Len.gor.inst. 35 no.1:56-65 '57. (MIRA 10:10)
(Electricity in mining) (Electric circuits) (Condensers (Electricity))

ANDRIANOV, V.N., doktor tekhn.nauk; BERSENEV, Ye.Ye., inzh.; BYSTRITSKIY, D.N., kand.tekhn.nauk; GREBENNIKOV, A.F., kand.tekhn.nauk; GRETSOV, N.A., kand.tekhn.nauk; ZOYEV, V.A., kand.tekhn.nauk; KLIMOV, A.A., kand.tekhn.nauk; KOROLEV, V.F., kand.tekhn.nauk; KUDRYAVTSEV, I.P., kand.tekhn.nauk; KULIK, M.Ye., kand.tekhn.nauk; NAZAROV, G.I., kand.tekhn.nauk; OLEYNIK, N.P., inzh.; OSETROV, P.A., kand.tekhn.nauk; PODSOSOV, A.N., inzh.; POPOV, S.T., inzh.; PRISHCHEP, L.G., kand.tekhn.nauk; PCHELKIN, Yu.N., inzh.; RUBTSOV, P.A., kand.tekhn.nauk; RUNOV, B.A., kand.tekhn.nauk; SAVINKOV, K.P., kand.tekhn.nauk; SAZONOV, N.A., prof., doktor tekhn.nauk; SERGEYEV, A.S., inzh.; SKVORTSOV, P.F., kand.tekhn.nauk; SMIRNOV, B.V., kand.tekhn.nauk; SMIRNOV, V.I., kand.tekhn.nauk; TYMINSKIY, Ye.V., inzh.; URVACHEV, P.N., kand.tekhn.nauk; SHTRURMAN, B.A., inzh.; SHCHUROV, S.V., kand.ekon.nauk; RUNOVA, L.M., inzh.; VOL'FOVSKAYA, D.N., red.; HIKITINA, V.M., red.; BALLOD, A.I., tekhn.red.

[Manual on the use of electric power in agriculture] Spravochnik po primeneniiu elektorenergii v sel'skom khoziaistve. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1958. 606 p. (MIRA 11:5)
(Electricity in agriculture)

KAPLIK, N.S.; SERGEYEV, A.S.

Luminair for illuminating scales of electric meters during their
checking. Izv.tekh. no.9:43 S '60. (MIRA 13:9)
(Electric lamps)

SERGEYEV, A.S., dotsent

See

Dissertations for the degree of candidate of technical sciences.
Elektrichestvo no.10:90-92 0 '60. (MIRA 14:9)
(Bibliography--Dissertations, Academic)

SLUGYEV, Aleksandr Sergeyevich, kand.tekhn.nauk, dotsent

Conversion of the structural networks of multistage systems
with crossing parallel couplings. Izv. vys. ucheb. zav.;
elektromekh. 3 no.12:112-116 '60. (MIRA 14:5)

1. Kafedra gornoy elektrotekhniki Krivorozhskogo gornorudnogo
instituta.

(Automatic control)

SERGEYEV, A.S., inzh.

Electric blocking of gates of the repair platform. Bezop.truda
v prom. 4 no.12:31 D '60. (MIRA 14:1)

1. Kolomenskiy teplovozostroitel'nyy zavod.
(Electric controllers)

SERGEYEV, A.S., inzh.

Blocking of an electromagnetic separator with an electrically driven
conveyer belt. Energetik 8 no.11:31-32 N '60. (MIRA 13:12)
(Foundries--Electric equipment)

SERGEYEV, A.S.

In regard to P.L.Svetlichnyi and V.V.Glushko's article "Nomographs for calculating electric cable networks in mine sections." Prom. energ. 15 no.9:39-40 S '60. (MIRA 13;10)

1. Krivorozhskiy gornorudnyy institut.
(Electricity in mining)
(Svetlichnyi, P.L.) (Glushko, V.V.)

SERGEYEV, I.S., dotsent

Dissertations for the degree of candidate of technical sciences.
Elektrichestvo no.4:92-94 Ap '61. (MIRA 14:8)
(Bibliography--Dissertations, Academic)

SERGIYEV, A.I., dotsent.

Dissertations for the degree of candidate of technical sciences,
Elektrichestvo no.3:89-90 Ag '61. (MIRA 14:10)
(Electric engineering)

ZHIBITSKY, I.V., invent., cond. tekhn. nauk; L. RYBYEV, A.S., sand. tekhn.
nauk

Electronic device for automating drainage equipment with a
low-voltage drive. Izv. nauch. trud. VNI no.10:254-259 1961
(MIRA 87:8)

SERGEYEV, A.S., dotsent

Dissertation for the degree of candidate of technical sciences.

Elektrichestvo no.3:93-95 Mr '62. (MIRA 15:2)

(Bibliography—Electric engineering)

SERGEYEV, A.S., dotsent

Dissertations for the degree of doctor of technical sciences.
Elektrichestvo no.5:92-93 My '62. (MIRA 15:5)
Bibliography--Electric engineering)

SERGEYEV, A.S., dotsent

Dissertations for the degree of candidate of technical sciences.
Elektrichestvo no.7:88-91 J1 '62. (MIRA 15:7)
(Bibliography—Electric engineering)

DODIK, S.D.; KAPNIK, M.Sh.; SERGEYEV, A.S.

Semiconductor stabilizers for output currents of 11 and 50 amperes.

Izm.tekh. no.4:39-41 Ap '63.

(MIRA 16:5)

(Electric current rectifiers)

SERGEYEV, A.S., kand.tekhn.nauk; RUNDKVIST, A.K., dotsent

Conditions for automatically controlling the density of the
overflow of classifiers in ore dressing plants of the Krivoy
Rog Southern Mining and Ore Dressing Combine. Sbor. nauch. trud.
KGRI no.7:294-298 '59; (MIRA 16:9)
(Krivoy Rog Basin--Separators (Machines))
(Automatic control)

BABIKOV, Maksim Alekseyevich, prof.; KOMAROV, Nikita Semenovich;
SERGEYEV, Aleksandr Sergeyevich; KUKHARKIN, Ye.P., dots.,
retsenzent; KOGEN-DALIN, V.V., dots., kand. tekhn.nauk,
red.; LARIONOV, G.Ye., tekhn. red.

[High-voltage engineering] Tekhnika vysokikh napriazhenii.
Izd.3., perer. Moskva, Gosenergoizdat, 1963. 670 p.
(MIRA 17:2)

SERGEYEV, A.S., dotsent

o.s.

Dissertations for the degree of candidate of technical sciences.

Elektrichestvo no.9:93-94 S '63.

(MIRA 16:10)

L 21013-65 AEDC(a)/ASD(a)-5/AFWL/AFMD(c)/AFETR/RAEM(d)/ESD(dp)

ACCESSION NR: AP5004055

S/0105/64/000/011/0089/0092

AUTHOR: Sergeyev, A. S. (Docent)

TITLE: Candidate of technical sciences dissertations

SOURCE: Elektrichostvo, no. 11, 1964, 89-92

TOPIC TAGS: electric engineering personnel, research program, electric engineering, electronics, automatic control

The following dissertations have been successfully defended in 1963. The listing is arranged by institution, name of candidate, date and title of dissertation, official opponents [examiners], and brief abstract. Unless otherwise noted, the first named opponent [examiner] is a Doctor of Technical Sciences and the second is a Candidate of Technical Sciences.

Moscow Power Institute

K. E. Zaydel, 7 June, "Control of cores and design of magnetic amplifiers that are self-saturating on the dynamic demagnetization curve"; Prof. M. I. Levin and O. I. Aven.

A new control device has been made for analyzing the dynamic demagnetization curves over a broad range of frequencies for cores of

Card 1/312

L 21013-65

ACCESSION NR: AP5004055

various sizes made of various materials. New operating modes for a two-cycle d-c output magnetic amplifier are proposed for increasing the amplification factor. An engineering method for designing amplifiers is given, as well as a numerical example.

V. D. Kravchenko, 14 June, "Antenna method for determining corona losses on active (loaded) power transmission lines"; Prof. E. A. Meyero-
vich and Dr. Tech. Sci, Prof. D. V. Rezevig.

A theoretical basis is given for the antenna method for calculating the scale factors of an electrical circuit and for the experimental testing of the method. Measurements are made and errors analyzed on 400 and 500 kv lines.

A. D. Romanov, 14 June, "Industrial methods for erecting 110 to 500 kv electrical transmission lines"; Prof. V. V. Burgsdorf and Doc. B. A. Knyazevskiy.

Use of prefabricated reinforced concrete structures, pile foundations, and zinc coated metal structures are examined, as well as use of helicopters, welding, and special construction techniques. Economic factors are analyzed.

N. V. Chernobrovov, 21 June, "Relay protection"; Prof. A. D. Drozdov and Doc. M. I. Tsarev.

Card 2/13

L 21013-65

ACCESSION NR: 5004055

A widely used textbook recommended by the Higher Educational Institutions.

L. N. Safonov, 21 July, "Investigation of precision angle sensors with printed end coils"; Prof. Yu. M. Pul'yer and Dr. Tech. Sci. Prof. I. Ts. Gal'perin.

A general theory is developed for the output emf of multipole rotatable transformers with printed end coils made of insulating and ferromagnetic materials. The optimum number of pole pairs is determined. A theory is advanced for the integral effect in multipole angle sensors having sectional secondaries. A model "shaft-to-angle" converter has been built and tested.

All-Union Electrotechnical Institute im. Lenin

V. A. Volkov, 28 June, "Use of micaceous materials in high-voltage electrical motors"; Prof. B. M. Tareyev and Doc. S. A. Yamanov.

Basic structural principles are formulated for micaceous winding insulations in high-voltage electrical motors. Micaceous insulation based on epoxy-polyester lacquer PE-939 and combined insulation made of micaceous ribbon and organosilicon lacquer K-43a and rubberized glass fiber RSLK-1, which completely eliminate sheet mica from high-voltage motors.

M. A. Golubenko, 28 June, "Investigation of organosilicon potting

Card 3/13

L 21013-65

ACCESSION NR: 5004055
compounds and their reaction with organic compounds"; Prof. N. S. Leznov
and Doc. S. A. Golubev. 4

Study of the synthesis of new organosilicon potting compounds and
oligomers with functional groups in the organic radicals and primarily
oligomers containing functional groups with epoxide groups. A potting
compound EK-20 having good characteristics has been developed.

L. Z. Eydel', 1 October, "Investigation and development of instru-
ments for measuring residual currents in high-voltage switching gear";
Prof. N. E. Lysov and A. M. Bronshteyn.

Two instruments have been developed: one using a low ohmic shunt, a
limiter, and an amplifier, for circuits having at least one ground point;
the other using a magnetron, for circuits lacking a ground point.

E. I. Ioffe, 27 May, "Investigation of corrosion of steel pipe by
alternating eddy currents"; V. V. Gerasimov and Cand. Chem. Sci. A. F.
Marchenko.

Investigation of corrosion of carbon steel under conditions of soil
electrolytes and alternating currents of varying density and frequency.
Theoretical conclusions are advanced for increasing the lifetime of under-
ground pipes.

All-Union Scientific-Research Institute of Electromechanics

L. V. Maziya, 30 May, "Computer simulation and investigation of con-

Card 4/13

L 21013-65

ACCESSION NR: AP5004055

tinuous operation of the electrical propeller drive of the atomic ice-breaker 'Lenin'; N. M. Yakimenko and Doc. G. K. Krug.

A computer method has been developed for simulating the processes occurring in the electric propeller drive in operating, emergency, and adjustment modes. Recommendations are made for designing and adjusting electric drive systems.

Moscow Aviation Technological Institute

N. M. Tarasov, 20 May, "Investigations of resistance welding conditions of thin metal by the similitude method"; D. S. Balkovets and B. B. Zolotarev.

A method has been developed for calculating metal welding conditions based on a model of spot welding processes. An a-c pulse welding machine is proposed.

Leningrad Higher Marine Engineering School

V. Ya. Yagodkin, 23 May, "Investigation of the operation of electrical propulsion motors of icebreaking ships when the screw interacts with the ice"; Prof. B. I. Nornevskiy and Doc. I. I. Gritsenko.

An analytical method has been developed for determining the additional moment provided when ice passes through the propeller blades and the associated transient processes in an electrical propulsion system having direct current feedback, such as is widely used in icebreaking ships, tugs,

Card 5/13

L 21013-65

ACCESSION NR: AP5004055

etc. A method is proposed whereby electronic computers can be used to calculate the transient processes.

Leningrad Mining Institute

I. M. Stolyarov, 28 June, "Investigation of magnetic semiconductor amplifiers in a system of dynamic braking of mining lifts"; Prof. A. E. Trop and Doc. V. I. Bocharov.

New magnetic amplifier designs and circuits are proposed, and physical processes in them are described. Input-output characteristic equations are given. The amplifiers can be used in various automatic control applications in mining machines.

Leningrad Polytechnical Institute

R. R. Parts /ts not 4/, 15 March, "Theoretical and experimental investigation of an asynchronous motor with various current distributions in the secondary"; Prof. L. P. Gnedin and V. M. Yurinov.

Special types of asynchronous motors, with complex rotors, are treated: ferromagnetic rotors, ferromagnetic copper-plated rotors, rotors with triple squirrel cages, short-circuited shielded rotors of any type, etc.

Leningrad Electrotechnical Institute

A. D. Shustov, 21 June, "Quality and accuracy of speed control systems of automated electric drive sections of paper making machines"; Prof. A. V. Basharin and I. E. V'yukov.

Card 6/13

L 21013-65

ACCESSION NR: AP5004055

Rheological properties of paper are systematized and fitted to the requirements of the automatic speed control system of the sections. The propagation of deformation in the paper web during sharp load variations is investigated. Accuracy and quality requirements of the control system are determined. Control systems with electromechanical and electronic amplifiers are studied.

M. A. Kropotkin, 21 June, "Investigation of the reflectivity of diffusive scattering materials in the 0.7 to 200 micron wavelength range"; Dr. of Physical and Mathematical Sciences, Prof. S. F. Rodionov and Candidate of Physical and Mathematical Sciences N. G. Yaroslavskiy.

Fundamental methods of measuring the spectral reflectivity and diffusive scattering of materials are examined and compared. A new coating has been prepared of glue BF-2 and soot which is more absorbent of 200 micron waves than soot and is more practical to use. An instrument has been designed to take spectra of the diffuse reflections from solid and granular materials in the 400 micron range. Spectral and integral coefficients of radiation from the samples are calculated. The instrument can also be used to study liquids.

Kiev Polytechnical Institute

V. A. Veselyy, 10 June, "Investigation of the electrical characteris-

Card 8/13

L 21013-65

ACCESSION NR: AP5004055

tics of suspension insulators of tempered alkali glass"; Prof. I. K. Fedchenko and Doc. L. V. Svechnikov. 2

Data obtained by the author on the electrical parameters of tempered alkali glass and the properties of insulators made of it are analyzed.

G. F. Semenov, 10 June, "Investigation of electromagnetic properties of cavities with dielectric inserts"; V. S. Lukoshkov and G. N. Rapoport.

Resonators with dielectric inserts of regular but arbitrary form are calculated as well as waveguides with dielectrics. Approximate calculations are given of the dispersion characteristics and coupling impedance of spiral delay systems with dielectrical mountings.

Yu. V. Shcherbina, 24 June, "Calculation of the optimum distribution of reactive power in electrical networks of power systems with the aid of electronic digital computers"; G. E. Pukhov and Dr. of Tech. Sci. Prof. I. I. Greben'.

An integration algorithm is developed for calculating the regimes of electrical networks for given loads on the basis of divided circuits. Various computer methods are compared. The mathematical formulation of the optimum reactive power distribution is given and an iteration method of solving the problem is proposed which allows an exact accounting of the electrical inhomogeneity of the network, the effect of voltage levels on power losses, etc.

Card 8/13

L 21013-65

ACCESSION NR:AP5004055

Khar'kov Polytechnical Institute III

V. Ya. Elknig, 6 June, "Three-stage electromagnetic amplifier for a high-power longitudinal field with a distributed compensation winding"; Prof. A. Ya. Berger and Doc. V. T. Logvinov.

The effect of the type of compensation winding on the characteristic and parameters of the winding are investigated. Commutation features of three-stage amplifiers with various compensation windings are examined. A method is developed for calculating two circuit variations of the auxiliary pole windings. The reaction of the commutation currents is studied and an analysis is given of the calculation of the auxiliary pole windings for various methods of compensating for the armature reaction. Experimental data are reported for the amplifier with a 100 kw field and recommendations are given for building such an amplifier and choosing its parameters.

A. N. Tkachenko, 6 June, "Induction symmetrical pulse generators"; Prof. V. A. Teft and Doc. I. I. Baru.

Known types of electromechanical pulse generators designed for powering electropulse machine tools are described and classified, and their operation is analyzed in detail. Steady-state operation of the generators with linear load is investigated. Methods of calculating the erosion shape

Card 9/13

3

L 21013-35

ACCESSION NR:AP5004055

are examined. The basic indexes of various types of generators are compared, and several methods of forming pulses and increasing their frequency are examined. Experimental generator models and the method used to study them are described. 3

Novosibirsk Electrotechnical Institute

V. S. Puchkov, 8 June, "Selection of operational parameters for regulating the excitation of synchronous booster compensators"; Prof. I. D. Kutyavin and M. A. Tagirov.

The problems treated are: method of studying the static stability of electrical transmission with synchronous compensators with broad application of computers, excitation control of compensators with proportional and strong excitation control of the generator, and the effect of the compensator parameters on the static stability of the electrical transmission.

G. A. Nazarenkova, 10 April, "Static characteristics of loads and how they are accounted for in the design of electrical networks"; Prof. R. A. Voronov and O. V. Ol'shevskiy.

An analysis is made of existing methods for calculating electrical networks taking static characteristics into account. Practical recommendations are made for applying the methods.

Card 10/13

L 21013-65

ACCESSION NR: AP5004055

Gor'kiy Polytechnical Institute III

G. A. Shteynik, 25 June, "Power for electrical resistance welding machines in the automobile industry"; Prof. A. M. Bamdas and Prof. B. A. Konstantinov.

A method for calculating the loads on welding machines of up to 100 kva is examined. Recommendations are given for selecting the methods for powering such welders, stabilizing the voltage, and providing for automatic control.

Azerbaydzhan Institute of Petroleum and Chemistry im. Azizbekov IV

A. A. Filippov, 14 June, "Investigation of various exciter circuits and operational features of transformers reproducing commutation waves"; Prof. Ch. M. Dzhubarly and G. S. Kuchinskiy.

The operation of a test transformer and the cascade coupling of such transformers in free oscillation mode are examined, as well as the effect of core saturation on the amplitude and nature of the oscillations. Various circuits for the control of oscillation processes are designed and tested. Results of investigations of discharge voltages across long air gaps for commutation wave voltages are given.

Card 11/13

L 21013-65

ACCESSION NR: AP5004055

Riga Polytechnical Institute ³

Ya. D. Barkan, 27 May, "Automatic voltage control in distribution networks"; Prof. V. G. Kholmskiy and Dr. of Tech. Sci. Prof. N. A. Mel'nikov.

Fundamental principles and practical criteria are developed for voltage control. Various methods of voltage stabilization are examined and compared. Voltage stabilizers for transformers are developed. The use of tunnel diodes in electrical automation and certain possibilities for automating voltage stabilization in transformer couplings and in power generator buses are examined.

Yu. I. Korinskiy, 3 June, "Longitudinal differential protectors for lines and for line-transformer units"; Prof. V. L. Fabrikant and Doc. M. I. Tsarev.

A method is given for calculating differential protection based on symmetrical components. Systems of protection are developed for lines with compensation for the effect of the conductors. The line transformer protection proposed is based on mismatch from sharp increase in magnetization current. Systems discussed have been built and tested in the laboratory.

Card 12/13

SERGEYEV, A.S., dotsent

Dissertations for the degree of candidate of technical sciences.
Elektrichestvo no.3:92 Mr '65. (MIRA 18:6)

SENCHEN, A.S., doctor

Dissertations for the degree of candidate of technical sciences.

Elektronicheskoye no. 5493-05 My '65.

(MIRA 18:6)

FOR THE

2. "Cyanite," a new hydrous ortho-silicic phosphate. Min.
Mag. vol. 37, 1914, p. 149.

four elements in the rocks of the exocontact aureoles of
ultrabasic and algaite intrusions in the Varzha-Kola region.,
Ibid.:192-210 (1987:18:9)

MIKHAILOV, Aleksandr Vladimirovich; ORLOV, A.S., d. 1911, r. Zhukovskiy;
DOKHOVSKAYA, L.P., d. 1912, r. Zhukovskiy; BORISOGLADSKIY, P.V.,
nots., r. Zhukovskiy; LIP, M.A., inzh., r. Zhukovskiy; SEMENOV,
I.S., nauchn. red.; POLETANINA, I.G., red.

[High-voltage technology: examples and problems] Tekhnika
vysokikh napriazheniy: primeraki i zadachki. Moskva,
Vysshaya shkola, 1965. 225 p. (MIRA 18:10)

SERGEYEV, A.S., dotsent

Dissertations for the degree of candidate of technical sciences.
Elektrichestvo no.1:93-96 Ja '65. (MIRA 18:7)

SERGEYEV, A.S., dotsent

Dissertations for the degree of candidate of technical science.
Elektrichestvo no.7:88-91 J1 '64.

(MIRA 17:11)

SERGEYEV, A.S., dotsent

Dissertations for the degree of candidate of Technical sciences.
Elektrichestvo no.11:89-91 N '64. (MIRA 1807)

SERGEYEV, A.S., dotsent

Dissertations for the degree of candidate of technical
sciences. Elektrichestvo no.12:81-83 D '65.

(MIRA 18:12)

L 29076-66 JT

ACC NR: AF6017710

SOURCE CODE: UR/0105/66/000/001/0087/0089

AUTHOR: Sergeyev, A. S. (Docent)

ORG: none

TITLE: Dissertations for the degree of Candidate of technical sciences

SOURCE: Elektrichestvo, no. 1, 1966, 87-89

TOPIC TAGS: electric engineering, electric motor, electric power transmission, automatic control, thermoelectric power plant, voltage regulator, induction furnace

ABSTRACT: A description of recently defended dissertations at the Moscow Power Institute, Power Institute imeni Krzhizhanovskiy, All-Union Electrotechnical Institute imeni Lenin, Moscow Higher Technical School, All-Union Scientific and Research Institute of Railroad Transport and Leningrad Electrotechnical Institute. The subjects of the dissertations include: the influence of asymmetry and non-sinusoidallness of voltage on the operation of three-phase asynchronous motors with shorted rotors; increasing the reliability and lowering costs in power transmission; reliability of ceramic condensers; electrical modeling of the dynamics of power transmission; lightning protection of buildings and stores which are explosive; automatic control of thermal electric power stations; production of heat-stable transformer wires; modeling and experimentation of transient power system processes; design of overhead wires and frost loading; plastics for conducting bridges; low voltage brushless excitation; control of diesel locomotives; spark damping in dc apparatus; ac voltage regulators and non-controlled rectifiers in dc transmission systems; automation of power system control in emergencies; non-linear steel oscillator circuits; power characteristics of installations with electron heating; power characteristics of induction furnaces with cooled crucibles; active resistance with the surface effect and proximity effect; stabilization of ac with an inert electromagnetic non-linear element. [JPRS]

SUB CODE: 10, 09, 13 / SUEM DATE: none

Card 1/1

UDC: 621.3(043)

L 61519-65 EWT(d)/EWT(m)/EWP(w)/EWP(c)/EWA(d)/EWP(v)/EPR/T/EWP(t)/EWP(k)/
EWP(b)/EWP(1) Pf-L JD/EM
ACCESSION NR: AP5012116

UR/0381/65/000/001/0094/0096
620.179

38
28
B

AUTHOR: Sergeyev, A. S.

TITLE: A review of dissertations on the problems of fault-detection (defectoscopy)

SOURCE: Defektoskopiya, no. 1, 1965, 94-96

TOPIC TAGS: fault detection, defectoscopy, nondestructive quality control, weld quality control, fluorography, magnetic fault detection, ultrasound, steel crack formation

ABSTRACT: Seven separate papers (dissertations) dealing with the general problem of fault-detection equipment and methods are reviewed in this "information bulletin". In each case, a concise summary of the paper is given, following the author's name, organizational affiliation and title of the dissertation. These abstracts are rather detailed and run in the neighborhood of 200-300 words each. The following are the dissertations discussed: 1) S. T. Nazarov (Moskovskoye vyssheye tekhnicheskoye uchilishche imeni N. E. Bauman (Moscow Higher Technical School)). "Results of investigations into non-destructive welding quality control", candidate's dissertation (30 June, 1947); 2) Ye. B. Penkevich (Moscow Higher Technical School). "Study of fluorography as applied to the transillumination of metals", candidate's dissertation (9 June, 1952); 3) L. F. Il'yushchenko

Card 1/2

L 61519-65

ACCESSION NR: AP5012116

10

(Moskovskiy oblastnoy pedagogicheskiy institut (Moscow Oblast Pedagogical Institute)).
 "Experimental methods of magnetic fault-detection (defectoscopy)", candidate's dissertation (28 January, 1954); 4) I. N. Yermolov (Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii mashinostroyeniya (Central Scientific Research Institute for Machine-Building Technology)). "Study of the effect of the dimensions and depth of occurrence of metal faults on the amplitude of an ultrasonic signal", candidate's dissertation (15 February, 1960); 5) M. P. Demin (Central Scientific Research Institute for Machine-Building Technology). "The effect of modifiers on the crack-strength of alloyed steels", candidate's dissertation (30 September, 1963); 6) A. K. Krupin (Moskovskiy institut stali i splavov (Moscow Institute of Steel and Alloys)). "Study of defects in metal as stress concentrators", candidate's dissertation (19 June, 1958); 7) B. S. Krygov. "Absorption in metals of the ultrasonic waves used in fault-detection (defectoscopy)", candidate's dissertation (30 June, 1953).

ASSOCIATION: None

SUBMITTED: 00

ENCL: 00

SUB CODE: IE, MM

NO REF SOV: 000

OTHER: 000

Card

dm
2/2

1971. 1. 1.

Mobility of the ions in the asomatic processes: differential
mobility of Fe and K during diffusion metastatic phenomena.
Vest. 100 19 no.18:46-48 '64.

(MIRA 17:11)

ZHUKOVA, A.A., kand. med. nauk (Moskva); GUREVICH, Yu.Ya. (Moskva);
FENENKO, N.F. (Zhdanov, Donetskaya oblast', UkrSSR); GINEVSKIY,
Ya.M. (Moskva); GAGINA, T.N. (Alma-Ata); VERESHCHAGIN, N.K.,
prof. (Leningrad); ABRAMOV, L.S.; SERGEYEV, A.S. (Moskva)

New books. Priroda 54 no.8:19, 35, 70, 102, 122-125 Ag '65.
(MIRA 18:8)

1. Institut geografii AN SSSR, Moskva (for Abramov).

VASILENKO, I.F.; SERGEYEV, A.S.

Seed Industry

Continuous method of cleaning and drying newly harvested grain seeds. Sel. i sem., 19,
No. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

SERGEYEV, A.; SLOBODCHIKOV, D.

Building mechanized grain-cleaning and drying barns. Sel',
stroil. 9 no.2:12-14 Mr-Ap '54. (MIRA 13:2)

1. Nachal'nik Krasnoyarskogo krayevogo upravleniya po stroitel'-
stvu v kolkhozakh (for Sergeyev). 2. Zaveduyushchiy Idrinskim
rayonnym otделom po stroitel'stvu v kolkhozakh (for Slobodchikov).
(Grain--Drying) (Grain--Cleaning)

USSR/Cultivated Plants - Grains.

11.

Abstr Jour : R. Zavr - Biol., No 10, 1958, 44018

Author : Sargayev, A.S.

Inst :

Title : Removal of Surface Moisture from Seed Grain.

Orig Pub : Vestn. s.-kh. nauki, 1957, No 7, 95-105

Abstract : This study concerns the method of removal of moisture after sorting the grain according to its specific weight in a liquid by drying it at different temperatures and pressures in the air drying chamber, and also by filtration method in a filtering centrifuge. The second method proved to be the best. The article cites mathematical formulas for the determination of the centrifuging time for grains of different cultures. It also presents curves expressing the relation of moisture removal to a number of conditions (thickness of the grain layer etc.).
-- V.M. Vnuchkova

Card 1/1

SERGEYEV, A. S., Doc of Tech Sci — (diss) "Investigation of Certain Problems of the Mechanization of the Process of Obtaining High Quality Seed Materials at the Purifying and Cleaning Stations of Sovk ozes and Kolkhozes," Balashikha, 1959, 31 pp
(Moscow Institute of the Mechanization and Electrification of Agriculture)
(KL, 5-60, 125)

SERGEYEV, A. S., kand.tekhn.nauk, dotsent

Removing the surface moisture of seed grain after the determination
of its specific weight in liquid for grading purposes. Trudy
MIMESKH 8:171-189 '59. (MIRA 13:9)
(Grain--Drying) (Grain--Grading)

KLENIN, N.I., dots.; POPOV, I.F., dots.; SERGEYEV, A.S., dots.;
SGLOV'YEV, V.M., dots.; TIMOFEYEV, A.I., dots.; SHMELEV,
B.M., dots.; LETNEV, B.Ya., red.; PEVZNER, V.I., tekhn.
red.; DUDAKOV, V.A., tekhn. red.

[Manual on practical exercises with agricultural machines
and implements] Praktikum po sel'skokhoziaistvennym mashinam
i orudiiam. [By] N.I.Klenin i dr. Moskva, Sel'khozizdat,
1963. 319 p. (MIRA 17:2)

SERGEYEV, A.S.

Effect of two-column well completion on drilling rate. Trudy
TSINTnefti no.1:56-81 '54. (MLRA 10:9)
(Oil well drilling)

KARYAGIN, Ivan Dmitriyevich.; SERGEYEV, A.S., red.; PETROVA, Ye. A., ved. red.;
MUKHINA, E. A., tekhn. red.

[Petroleum industry of Rumania and economic problems in its
development in a people's democracy] Neftianaya promyshlennost'
Rumynii i ekonomicheskie problemy ee razvitiia v usloviakh
narodno-demokraticheskogo stroia. Moskva, Gos. nauchno-tekhn.
izd-vo neft. i gorno-toplivnoi lit-ry, 1958. 345 p. (MIRA 11:12)
(Rumania--Petroleum industry)

Sergeyev, A.S.

65-2-1/12

AUTHORS: Sergeyev, A. S. & Beyder, P. Ya.

TITLE: On the Future Needs of Crude Petroleum Products in the National Economy of the USSR. (Ob udovletvorenii perspektivnoy potrebnosti narodnogo khozyaystva SSSR v nefteproduktakh).

PERIODICAL: Khimiya i Tekhnologiya Topliv i Masel, 1958, Nr. 2, pp. 1-7. (USSR).

ABSTRACT: The figures of consumption of petroleum products increased by 92% between 1950 - 1955. The sharpest increase was in the consumption of diesel oils (3½ times higher than in 1950). The TSNIITEneft' is carrying out surveys, and estimating the requirements in crude petroleum products for 1965. A threefold increase in consumption is expected compared to 1955, and a fivefold increase as compared to 1950 (Table 1). Considerably more will be needed in the eastern parts of the USSR by 1965 (Table 2). Comparative data on the requirements of the USSR, the U.S.A., and Western Europe are given. The processing and desulphurisation of diesel oils prepared from sulphur-containing crude oil will have to be increased. The manufacture of winter grade, and other special types of diesel oil should be

Card 1/2

L 39080-66 INT(6)/INT(j)/T IJP(c) 77/01/100

ACC NR: AP6021975

SOURCE CODE: UR/0153/66/009/002/0322/0324

AUTHOR: Gridunov, I. T.; Sergeyev, A. S.; Koshelav, F. F.; Potapov, A. M.; Puzrin, B. S.

ORG: Rubber Technology Department, Moscow Institute of Fine Chemical Technology im. M. V. Lomonosov (Kafedra tekhnologii reziny, Moskovskiy institut tonkoy khimicheskoy tekhnologii)

TITLE: On the evaluation of the incombustibility of rubbers

SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiya, v. 9, no. 2, 1966, 322-324

TOPIC TAGS: combustion, rubber

ABSTRACT: The incombustibility of several rubber compositions was evaluated by studying the dependence of the combustibility (in terms of the extinction time in seconds) on the time during which the specimen remained in the flame. The five compositions studied were: (1) composition A (pts. by wt.): nairit, 100; MgO 10; ZnO, 5; chlorinated paraffin, 5.5; chalk, 5; (2) composition B = composition A + 5.0 pts. by wt. of aluminum hydroxide; (3) composition C = composition A + 20 pts. by wt. of aluminum hydroxide; (4) composition D = composition A + 40 pts. by wt. of aluminum hydroxide; (5) composition E = composition A + 40 pts. by wt. of nickel sulfate crystal hydrate. The corresponding curves are shown in Fig. 1. On each curve,

Card 1/2

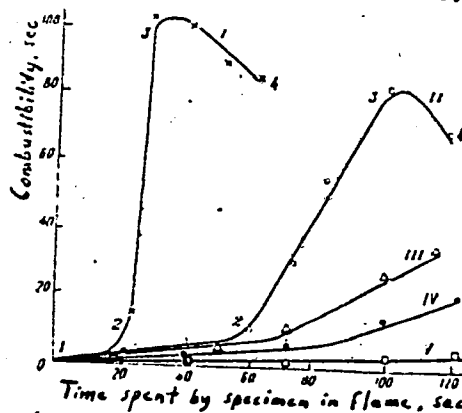
UDC: 678.014

100890-01

ACC NR: AP6021975

segment 1-2 is the induction period of incombustibility, segment 2-3 characterizes stable combustion, and segment 3-4 shows the decrease of combustion due to the burning up of the rubber. The curves show that the time of self-extinction of the specimen after the latter has remained in the flame for a certain period of time cannot be a criterion for an objective evaluation of incombustibility. Such a criterion is the induction period of incombustibility, i. e., the time required for self-extinction to be reached or for stable combustion to begin after the flame has ceased to act. Orig. art. has: 1 figure.

Fig. 1. Change in the combustibility of nairit rubbers as a function of the time spent by the specimens in the flame. I, II, III, IV, V - respectively rubbers of compositions A, B, C, D, and E.



SUB CODE: 11/ SUBM DATE: 06Jul64/ ORIG REF: 003/ OTH REF: 001

Card 2/2 MLP

SERGEYEV, A.V.

Nitric oxide anesthesia in medical first aid. Sov.med. 18 no.6:
13-16 Je '54. (MLRA 7:6)

1. Iz Moskovskogo gorodskogo nauchno-issledovatel'nogo instituta
skoroy pomoshchi imeni Sklifozovskogo (dir. M.M.Tarasov) i Moskov-
skoy stantsii skoroy meditsinskoy pomoshchi (i.o. nachal'nika N.A.
Romadin)

(ANESTHESIA,

*nitric oxide, in first aid)

(FIRST AID, anesthesia and analgesia

*nitric acid)

(NITROGEN

*nitric acid analgesia in first aid)

PAFOMOV, G.A., kand.med.nauk; SERGEYEV, A.V., (Moskva)

Use of nitrous oxide in stenocardia. Klin.med. 36 no.1:24-29 Ja '58.
(MIRA 11:3)

1. Iz laboratorii funktsional'noy diagnostiki i terapevticheskoy
kliniki (rukovoditel'-prof. P.L.Sukhinin) Moskovskogo gorodskogo
nauchno-issledovatel'skogo instituta skoroy pomoshchi imeni
Sklifosovskogo (dir.-zasluzhennyy vrach USSR M.M.Tarasov).

(ANGINA PECTORIS, ther.

nitrous oxide (Rus)

(NITROUS OXIDE, ther. use

angina pectoris (Rus)

SERGEYEV, A.V.

Interprovince meeting for the exchange of experience by personnel of
province hospitals in the organization of medical care for the rural
population. Zdrav.Ros.Feder. 4 no.11:44-45 '60. (MIRA 13:11)
(PUBLIC HEALTH, RURAL)

SERGEYEV, A.V.

Fourth Plenum of the Council for Medical and Prophylactic Care in
The Ministry of Public Health of the R.S.F.S.R. Zdrav. Ros.
Feder. 5 no. 3:43-45 Mr '60. (MIRA 14:2)

(LENINGRAD—MEDICAL PERSONNEL)

(LENINGRAD—BLOOD VESSELS—DISEASES)

SERGEYEV, A.V.

Nitrous oxide as the best anesthetic in the practice of emergency
medical aid. Khirurgiia no.11:28-30 '61. (MIRA 14:12)

1. Iz Moskovskogo gorodskogo nauchno-issledovatel'skogo instituta
skoroy pomoshchi imeni N.V. Sklifosovskogo (dir. M.M. Tarasov)
i Moskovskoy stantsii skoroy meditsinskoy pomoshchi (nach. A.F.
Shvedov).
(NITROUS OXIDE) (FIRST AID IN ILLNESS AND INJURY)

SERGEYEV, A. V.; GORSKIY, B. P.

AN-8, a new gas anesthetic apparatus for medical first aid.
Eksper. khir. i anest. no.2:76-78 '62. (MIRA 15:6)

1. Iz Moskovskogo gorodskogo nauchno-issledovatel'skogo instituta
skoroy pomoshchi imeni N. V. Sklifosovskogo (dir. M. I. Tarasov)
i Moskovskoy stantsii skoroy meditsinskoy pomoshchi (nach. A. F.
Shvedov)

(ANESTHESIOLOGY—EQUIPMENT AND SUPPLIES)
(FIRST AID IN ILLNESS AND INJURY—EQUIPMENT
AND SUPPLIES)

SERGEYEV, A.V.

Therapeutic and preventive services for the population in the light
of the resolutions passed by the 22d Congress of the CPSU. Zdrav.
Ros. Feder. 6 no.3:3-7 Mr '62. (MIRA 15:4)

1. Zamestitel' ministra zdravookhraneniya RSFSR.
(PUBLIC HEALTH)

SERGEYEV, A.V.

Some achievements and tasks in the development of public health
in the Russian Federation. Zdrav.Ros.Feder. 7 no.1:3-10 Ja '63.
(MIRA 16:2)

1. Zamestitel' ministra zdravookhraneniya RSFSR.
(PUBLIC HEALTH)

SERGEYEV, Andrey Vasil'yevich; YEFUNI, S.N., red.; PRONINA, N.D.,
tekhn. red.

[Use of nitrous oxide in the practice of medical emergency
aid] Primenenie zakisi azota v praktike skoroi meditsinskoj
pomoshchi. Moskva, Medgiz, 1963. 91 p. (MIRA 16:7)
(NITROUS OXIDE--THERAPEUTIC USE)

S/058/62/000/010/043/093
A061/A101

AUTHORS: Sergeyev. A. V., Luzov, A. A.

TITLE: Barometric coefficient of the neutron component

PERIODICAL: Referativnyy zhurnal, Fizika, no. 10, 1962, 61, abstract 10B457
(In collection: "Kosmicheskiye luchy, no. 3", Moscow, AN SSSR, 1961, 163 - 165, summary in English)

TEXT: The present data concerning the seasonal change of the barometric coefficient β of the neutron component were obtained from observations at two (1 and 2) spaced points under similar conditions of the recording of neutron component variations. If the recording points are on close geomagnetic latitudes, the barometric coefficients β_1 and β_2 are equal ($\beta_1 = \beta_2 = \beta$), and the temperature effect can be neglected, then $\ln I_1 - \ln I_2 = \beta(h_2 - h_1)$, where I and h denote the intensity and the pressure at the points indicated. The recording of the neutron component variations was conducted with standard neutron monitors at two stations: Irkutsk (USSR, $\xi = 10.8^\circ$; $\lambda = 174.4^\circ$; altitude 433 m) and Deep River (Canada, $\xi = 57.5^\circ$; $\lambda = 358^\circ$; altitude 145 m). β was calculated using all available daily averages of intensities $\ln I_1$ and $\ln I_2$ and pressures h_1 and h_2
Card 1/2

BLOKH, Ya.L.; INOZEMTSEVA, O.I.; KAMINER, N.S.; KOPYLOV, Yu.M.;
KOYAVA, V.K.; SERGEYEV, A.V.

Variations in the intensity of cosmic rays recorded Nov. 12-15,
1960. Geomag. i aer. 1 no.3:441 My-Je '61. (MIRA 14:9)

1. Institut zemnogo magnetizma, ionosfery i rasprostraneniya
radiovoln AN SSSR, Institut zemnogo magnetizma, ionosfery i
rasprostraneniya radiovoln Sibirskogo otdeleniya AN SSSR i
Institut geofiziki AN GruzSSR.
(Cosmic rays)

SERGEYEV, A.V.; LUZOV, A.A.

Operating conditions for SMM-8 counters at voltages up to
3 kw. Trudy IAFAN SSSR. Ser. fiz. no.4:38-40 '62.

(MIRA 15:12)

(Nuclear counters) (Neutrons) (Cosmic rays)

I 04882-67 INW(E) DTIC(S) CD

ACC NR: AT6027223

SOURCE CODE: UR/0000/66/000/000/0151/0155

AUTHOR: Sergeyev, A. V.; Osak, V. F.

ORG: none

TITLE: Electronic circuit of a neutron monitor

SOURCE: AN SSSR, Sibirskoye otdeleniya. Sibirskiy institut zemnogo magnetizm, ionosfery i rasprostraneniya radiovoln. Issledovaniya po geomagnetizmu i aeronomii (Studies in geomagnetism and aeronomy). Moscow Izd-vo Nauka, 1966, 151-155

TOPIC TAGS: neutron detector, neutron counter, electronic circuit, circuit design

ABSTRACT: A method for simplifying the circuit of a neutron monitor is proposed, which is based on the experimental finding that an increase of the supply voltage of an SNM-8 slow-neutron counter to 3000 v does not cause the counter indications to fall outside the proportionality limits. This mode of operation makes it possible to obtain a pulse amplitude roughly twice that of the standard mode. Pulses can be recorded with a simple pulse amplifier with a gain $K \approx 200$. Based on these results, a neutron-monitor circuit is designed which incorporates both electronic tubes and semiconductors, and by introducing feedback and adequate

Card 1/2

1. 01-87-47

ACC NR: AT6027223

correlation between the stages of the first and second amplifier, greatly reduces the thermal instability exhibited by earlier devices of this type. A distinctive feature of the circuit proposed is the use of a tunnel diode (with an operating threshold of 0.2 v) in the integral pulse-discriminator circuit. The maximum gain is 500, and the instability is $\pm 0.5\%$. A schematic circuit and a block diagram of the neutron monitor are given and discussed. Orig. art. has: 1 table and 4 figures.

SUB CODE: 09,18/ SUBM DATE: 25Dec65/ ORIG REF: 009/ OTH REF: 001

Card 2/2 *safe*

KUZ'MIN, A.I.; KUKLIN, G.V.; SERGEYEV, A.V.; SKRIPIN, G.V.; CHIRKOV, N.P.;
SHAFER, G.V.

Flare-up of cosmic ray intensity on May 4, 1960. Trudy
IAFAN SSSR. Ser. fiz. no.4:132-137 '62. (MIRA 15:12)
(Cosmic rays)

ALUKER, Sh.M.; ANDRIANOV, V.N.; BUDZKO, I.A.; BURGUCHEV, S.A.; ZAPHARIN,
A.G.; NAZAROV, G.I.; PRISHCHEP, L.G.; FOYARKOV, M.F.; RASOVSKIY,
E.I.; RUNOV, B.A.; SKVORTSOV, P.F.; SERGEYEV, A.V.

P.N.Listov; on his sixtieth birthday and the thirty-fifth
anniversary of his industrial, theoretical, and educational
work. Elektrichestvo no.11:94 N '62. (MIRA 15:11)
(Listov, Petr Nikolaevich, 1902-)

SERGEYEV, A. V.

USSR :

The influence of fertilizer on the electrical resistance of soils. A. V. Sergeyev. *Izvest. Timiryazev. Sel'skokhoz. Akad.* 1954, No. 2 (Whole No. 6), 87-91.—Addns. of electrolytes in the form of fertilizer salts, KCl, KH_2PO_4 , NaCl, NH_4NO_3 , NH_4Cl , increase the elec. cond. as measured by resistance. In the case of hot beds heated with electricity the time necessary for bringing up the temp. is reduced. Other factors affecting cond. is content of H_2O , compaction, mech. compn., and temp. J. S. Joffe

112-2-2634

Translation from: Referativnyy Zhurnal, Elektrotehnika, 1957, Nr 2,
p.4 (USSR)

AUTHOR: Sergeyev, A.V.

TITLE: Electrical Resistance of Soils at Different Levels
(Elektricheskoye soprotivleniye pochv v razlichnykh
gorizontakh)

PERIODICAL: Dokl. Mosk. s.-kh. akad. im K.A. Timiryazeva, 1956,
Nr 22, pp. 429-438

ABSTRACT: Bibliographic entry.

Card 1/1

USSR / Cultivated Plants. Grains.

M-3

Abs Jour: Ref Zhur-Biol., 1956, No 16, 72881.

Author : Sergeyev, A.

Inst : Moscow Agricultural Academy imeni K. A. Timiryazev.

Title : Winter Hard Wheat.

Orig Pub: Sb. stud. nauchno-issled. rabot. Mosk. s.-kh. akad.
im. K. A. Timiryazeva, 1957 (1958), vyp. 7, 41-46.

Abstract: No abstract.

Card 1/1

SERONBYEV, A.V., inzh.

Effect of meteorological conditions, tillage methods, and vegetation
on the electric resistance of soils. Dokl. TSKhA no.27:139-144 '57.
(Soils) (Electric resistance) (MIRA 11:4)

SERBEEV, A.V.

Mineral and vitamin nourishment of cattle on certain collective
farms of central Yakutia. Uch.zap. IAGU No.6:55-59 '59.
(MIRA 13:12)

(Yakutia--Cattle--Feeding and feeds)

SERGEYEV, A.V.

Some material on ensiling feed under permafrost conditions. Uch.zap.
IAGU no.6:61-63 '59. (MIRA 13:12)
(Yakutia--Ensilage)

SERGEYEV, A.V.

Dynamics of the carotene content of ensilage crops. Uch.zap. IAGU
No.6:65-84 '59. (MIRA 13:12)

(Field crops—Analysis)

SERGEYEV, A.V.

Early Ukrainian settlements in the lower Volga Valley. Uch.zap.
Sar. un. 72:19-24 '59. (MIRA 13:8)

(Volga Valley--Ukrainians)
(Volga Valley--Land settlement)

SERGEYEV, A.V., mladshiy nauchnyy sotr.; MUSATOV, V., red.; SHLYK, M.,
tekhn. red.

[Barley] Iachmen'. Moskva, Mosk. rabochii, 1961. 15 p.
(MIRA 14:7)

(Barley)

PRISHCHEP, L.G., dotsent, kand. tekhn. nauk; SERGEYEV, A.V., kand.
tekhn. nauk; YELKHOVSKAYA, M. Ye.

Use of high-voltage devices for the extermination of flying
parasitic insects in orchards and gardens. Izv. TSKHA no. 1:
213-221 '65 (MIRA 19:1)

1. Kafedra elektrifikatsii sel'skokhozyaystvennogo proizvodstva
(for Prishchep, Sergeyev) i Ovoshchnaya opytnaya stantsiya
(for Yelkhovskaya) Moskovskoy sel'skokhozyaystvennoy ordena
Lenina akademii imeni Timiryazeva.

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AUTHOR: Veytsman, L. Yu. (Engineer); Gavchuk, A. N. (Engineer); Sergeyev, A. V. 50
 (Engineer); Uzars, V. Ya. (Engineer) B

ORG: none

TITLE: Investigation of load characteristics of silicon power diodes 25

SOURCE: Elektrotehnika, no. 6, 1966, 4-8

TOPIC TAGS: silicon diode, electronic rectifier/VK-200 silicon diode, PVK-200
 silicon diode

ABSTRACT: Data are presented from an investigation of the overload characteristics of silicon power diodes VK-200, VKD-200 and PVK-200, and their parameters are compared. Practical recommendations are given for reduction of the number of semiconductor diodes in rectifiers of electric trains. In the diodes tested, increasing short circuit current caused a non-linear increase in p-n junction temperature depending on the preliminary heating of the junction. The body temperatures of the three types of diodes tested under the same operating conditions differed very little. The internal thermal resistance of the PVK-200 was found to be about 1.5 times that of the other two types. It was decided that protection of the rectifier of the ER-9 electric locomotive could be simplified, since the requirements for overload capacity of silicon diodes is satisfied in conjunction with a high-voltage air-gap circuit breaker plus current-limiting reactor. Orig. art. has: 5 figures and 5 tables. [JPRS: 37,061]

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Card 1/1

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